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10/520,418	01/05/2005	Karin Schuetze	62514(45107)	9914
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EDWARDS ANGELL PALMER & DODGE LLP P.O. BOX 55874			SELLMAN, CACHET I	
BOSTON, MA 02205			ART UNIT	PAPER NUMBER
		1792		
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			01/24/2008	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary		Application No.	Applicant(s)			
		10/520,418	SCHUETZE ET AL.			
		Examiner	Art Unit			
		Cachet I. Sellman	1792			
Period fo	The MAILING DATE of this communication app r Reply	ears on the cover sheet with the c	orrespondence address			
WHIC - Exten after: - If NO - Failur Any n	CRTENED STATUTORY PERIOD FOR REPLY CHEVER IS LONGER, FROM THE MAILING DAISIONS of time may be available under the provisions of 37 CFR 1.13 SIX (6) MONTHS from the mailing date of this communication. Period for reply is specified above, the maximum statutory period were to reply within the set or extended period for reply will, by statute, eply received by the Office later than three months after the mailing and patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tin will apply and will expire SIX (6) MONTHS from a cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).			
Status						
1)⊠	Responsive to communication(s) filed on <u>05 Ja</u>	anuary 2005.				
2a)	This action is <b>FINAL</b> . 2b)⊠ This action is non-final.					
3)	3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
	closed in accordance with the practice under E	x parte Quayle, 1935 C.D. 11, 4	53 O.G. 213.			
Dispositi	on of Claims					
5)□ 6)⊠ 7)□	Claim(s) <u>23-45</u> is/are pending in the application 4a) Of the above claim(s) <u>44 and 45</u> is/are with Claim(s) is/are allowed. Claim(s) <u>23-43</u> is/are rejected. Claim(s) is/are objected to.	drawn from consideration.				
8)∐	Claim(s) are subject to restriction and/or	r election requirement.				
Applicati	on Papers					
10)🛛	The specification is objected to by the Examine The drawing(s) filed on <u>05 January 2005</u> is/are: Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct The oath or declaration is objected to by the Ex	a)⊠ accepted or b)⊡ objected drawing(s) be held in abeyance. Selion is required if the drawing(s) is ob	e 37 CFR 1.85(a). ejected to. See 37 CFR 1.121(d).			
Priority u	ınder 35 U.S.C. § 119					
<ul> <li>12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).</li> <li>a) All b) Some * c) None of:</li> <li>1. Certified copies of the priority documents have been received.</li> <li>2. Certified copies of the priority documents have been received in Application No</li> <li>3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).</li> <li>* See the attached detailed Office action for a list of the certified copies not received.</li> </ul>						
2) Notice	t(s) te of References Cited (PTO-892) te of Draftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO/SB/08) tr No(s)/Mail Date 1/5/2005.	4) Interview Summary Paper No(s)/Mail D 5) Notice of Informal F 6) Other:	ate			

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## **DETAILED ACTION**

## Claim Objections

1. Claim 33 is objected to under 37 CFR 1.75(c), as being of improper dependent form for failing to further limit the subject matter of a previous claim. Applicant is required to cancel the claim(s), or amend the claim(s) to place the claim(s) in proper dependent form, or rewrite the claim(s) in independent form. Dependent claim 33, claims that the film is a UV laser light absorbing film, however, claim 23 from which it depends contains the limitation that the film is a uv laser light absorbing film.

The numbering of claims is not in accordance with 37 CFR 1.126 which requires the original numbering of the claims to be preserved throughout the prosecution. When claims are canceled, the remaining claims must not be renumbered. When new claims are presented, they must be numbered consecutively beginning with the number next following the highest numbered claims previously presented (whether entered or not).

2. Misnumbered claim 33 been renumbered 32. Claim 32 is missing in the claim listing.

## Claim Rejections - 35 USC § 112

- The following is a quotation of the second paragraph of 35 U.S.C. 112:
   The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.
- 2. Claim 30 is rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

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- 3. Claim 30 recites the limitation "the preparation, mixture or pure substance" in line
- 2. There is insufficient antecedent basis for this limitation in the claim.

Note: It seems that claim 30 should depend from claim 29 instead of 23.

## Claim Rejections - 35 USC § 103

- 4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
  - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 5. The factual inquiries set forth in *Graham* v. *John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:
  - 1. Determining the scope and contents of the prior art.
  - 2. Ascertaining the differences between the prior art and the claims at issue.
  - 3. Resolving the level of ordinary skill in the pertinent art.
  - 4. Considering objective evidence present in the application indicating obviousness or nonobviousness.
- 6. This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to

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consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

7. Claims 23-31,34-37 and 41-43 are rejected under 35 U.S.C. 103(a) as being unpatentable over Lossing et al. (US 6523248) in view of Bova (US 2002/0025511) and Baer (US 2001/0028934).

Lossing et al. teaches a process for processing a biological sample for laser capture microdissection which includes the steps of providing a biological sample, applying a substance to the sample that provides a barrier between the sample and the surrounding environment. Lossing et al. teaches that the process reduces non-specific pickup, improves visualization, decreases degradation and contamination of the sample (see abstract) (claim 31).

Lossing et al. does not teach that the film used is a UV absorbing film as required by **claim 23**. However, it was well known in the art at the time the invention was made the problem associated with ultraviolet light breaking single, or double strand DNA in biological systems and the use of a transparent UV slip used when using laser devices as taught by Bova.

Futhermore, Baer et al. discloses a process for laser capture microdissection for biological samples where a coating is applied such as an EVA and that additives can be included into the EVA such as UV absorbers (see paragraph 0043].

It would have been obvious to one having ordinary skill in the art at the time the invention was made to modify the process of Lossing et al. to include the use of UV

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absorbers in the film as taught by Bova and Baer et al. in order to protect the sample from the UV light which can adversely affect the DNA strands in the sample.

Lossing et al. teaches that the film can be applied by dissolving the coating material into a solvent and dipping the slide having the tissue into the coating solution, spraying or aerosolizing the coating solution (see col. 4, lines 1-27) (claims 24-26). Lossing teaches that the clear coat is ELVAX which is an ethylene vinyl acetate (see col. 4, line 38-48). ELVAX is a non toxic material and is inert and does not have any adverse affects on the biological material (claims 27-28). The material used is a transparent preparation, mixure and/or pure substance such as waxes or low molecular weight oligomers, polyethylene, alcohols, acrylates, urethanes, epoxies, (see coal. 7, line 65 – col. 8, line 11) (claims 29-30). The RNA and DNA of the sample is preserved by using a UV absorbing film as required by claims 35-36. The coating of Lossing et al. affects the fluorescence of the tissue sample by increasing its fluorescence (see col. 8, lines 47-67) claim 37. The ELVAX material is dissolved in a solvent (claim 41) where the solvent is xylene (see col. 4, lines 37-45) (claim 42). After the film is solidified it facilitates cutting or catapulting the film and the biological material undernearth with a laser beam (see col. 8, lines 35-42) (claim 43).

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Cachet I. Sellman whose telephone number is 571-272-0691. The examiner can normally be reached on Monday through Friday, 7:00 - 4:30pm.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Timothy Meeks can be reached on 571-272-1423. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Cachet I Sellman Examiner Art Unit 1792

Cis

/William Phillip Fletcher III/ Primary Examiner